

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	(track\$5 record\$5 gather\$5 collect\$5) near10 (oriented specific) near10(click) near10 (stream) near10 (history information data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 11:53
L2	1	(track\$5 record\$5 gather\$5 collect\$5) near10 (click) near10 (stream) near10 (oriented specific) near10 (history information data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 11:55
L3	109	(track\$5 record\$5 gather\$5 collect\$5) near10 (click) near10 (stream)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 11:55
L4	0	(track\$5 record\$5 gather\$5 collect\$5) near10 (click) near10 (stream)and (find\$5 detect\$5 record\$5) near10 (source originat\$5) near10 (sell\$5 sale)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 12:02
L5	160	(find\$5 detect\$5 record\$5) near10 (source originat\$5) near10 (sell\$5 sale)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 12:02
L6	1	L5 and (click) near10 (stream)and (find\$5 detect\$5 record\$5) near10 (source originat\$5) near10 (sell\$5 sale)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 13:04
L7	78	(clickstream weblog) near10 (history statistics data report database session)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 12:52
L8	0	(framewise) same (clickstream weblog)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 12:52
L9	212	(find\$5 detect\$5 record\$5 track\$5) near10 (source originat\$5) near10 (sell\$5 sale)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 13:46
L10	3	"5812980".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 14:34
L11	0	"709"/\$.cls. and ((record\$5 collect\$5 compil\$5 track\$5 stor\$5 sav\$5 solicit\$5) near10 ((click near4 stream) (click-stream)) near5 (including) near10 ((referr\$5 near5 link) (hyper near4 link) (frame near4 link) frame))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 14:42

L12	0	((record\$5 collect\$5 compil\$5 track\$5 stor\$5 sav\$5 solicit\$5) near10 ((click near4 stream) (click-stream)) near5 (including) near10 ((referr\$5 near5 link) (hyper near4 link) (frame near4 link) frame))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 14:45
L13	1	((click near4 stream) (click-stream)) near5 (including) near10 ((referr\$5 near5 link) (hyper near4 link) (frame near4 link) frame)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 14:43
L14	0	(weblog) near5 (including) near10 ((referr\$5 near5 link) (hyper near4 link) (frame near4 link) frame)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 14:43
L15	0	((record\$5 collect\$5 compil\$5 track\$5 stor\$5 sav\$5 solicit\$5) near10 ((click near4 stream) (click-stream)) near10 ((referr\$5 near5 link) (hyper near4 link) (frame near4 link) frame))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 14:46
L16	210	((record\$5 collect\$5 compil\$5 track\$5 stor\$5 sav\$5 solicit\$5) near10 ((weblog) (session)) near10 ((referr\$5 near5 link) (hyper near4 link) (frame near4 link) frame))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 15:17
L17	6	(record\$5 collect\$5 compil\$5 track\$5 stor\$5 sav\$5 solicit\$5) near10 ((weblog) (session)) near10 ((referr\$5 near5 link) (hyper near4 link) (frame near4 link))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 15:20
L18	1	(record\$5 collect\$5 compil\$5 track\$5 stor\$5 sav\$5 solicit\$5) near10 (user adj activity) near10 ((referr\$5 near5 link) (hyper near4 link) (frame near4 link))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 15:22
L19	1078	(record\$5 collect\$5 compil\$5 track\$5 stor\$5 sav\$5 solicit\$5) near10 (user adj activity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 15:22
L20	933	(record\$5 collect\$5 compil\$5 track\$5 stor\$5 sav\$5 solicit\$5) near5(user adj activity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 15:24
L21	796	(record\$5 collect\$5 compil\$5 track\$5 stor\$5 sav\$5 solicit\$5) near3 (user adj activity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 15:24
L22	1	(record\$5 collect\$5 compil\$5 track\$5 stor\$5 sav\$5 solicit\$5) near3 (user adj activity) and (Frame adj identifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 15:26

L23	185	(record\$5 collect\$5 compil\$5 track\$5 stor\$5 sav\$5 solicit\$5) near3 (user adj activity) and (advertisement)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 16:54
L24	0	(record\$5 collect\$5 compil\$5 track\$5 stor\$5 sav\$5 solicit\$5) near3 (frame-specific) near5 (user adj activity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 16:55
L25	0	(frame-specific) near5 (user adj activity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 16:56
L26	63	(frame-specific)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 16:56
S1	2	"6073138".PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/27 10:25
S2	117	(track\$ record\$4 follow\$4 solicit\$4) near5 (internet adj (buyer customer user))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/08/17 09:40
S3	34	(track\$) near5 (internet adj (buyer customer user))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/05 09:16
S4	205	(track\$ weblog) near5 ((buyer customer user) adj (session clicksteam))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 10:48
S5	0	"09425280".apn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 10:46
S6	1	"425280".apn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 10:47
S7	5	"425280".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 10:47
S8	1	"425280".ap. and(track\$ weblog) near5 ((buyer customer user) adj (session clicksteam))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 12:03
S9	228	(track\$ weblog history statistic\$1 habit) near5 ((buyer customer user) adj (session clicksteam)) and (frame (id identification))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 15:32

S10	9	((track\$ weblog history statistic\$1 habit) near5 ((buyer customer user) adj (session clicksteam)) and (frame (id identification))) and 709/223,224.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 12:13
S11	0	(track\$ weblog history statistic\$1 habit) near5 ((buyer customer user) adj (session clicksteam)) and (frame adj (id identification))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 12:06
S12	612	Frame adj (ID Identification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 12:30
S13	2965659	L (Frame adj (ID Identification)) and ((buyer customer user) adj (session clicksteam))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 12:17
S14	5	(Frame adj (ID Identification)) and ((buyer customer user) adj (session clicksteam))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 12:31
S15	4	(Frame adj (ID Identification)) and 709/223,224.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 12:18
S16	19708	Frame adj (ID URL Address Number)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 12:42
S17	69	(Frame adj (ID URL Address Number)) and ((buyer customer user) adj (session clicksteam))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 12:31
S18	649	Frame adj (ID URL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 12:42
S19	0	(Frame adj (ID URL)) and (track\$ weblog history statistic\$1 habit) near5 ((buyer customer user) adj (session clicksteam))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 12:44
S20	54	(weblog history statistic\$1 habit) near5 ((buyer customer user) adj (session clicksteam))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 13:02
S21	0	((clickstream weblog) near10 (history statistics data report database session)) and (frame adj ID)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 13:04
S22	63	(clickstream weblog) near10 (history statistics data report database session)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 12:14
S23	0	(clickstream) adj ((history statistics) adj (database table data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 13:23

S24	1	(clickstream) adj (history statistics)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 14:17
S25	2	"5991735".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 14:17
S26	4840	709/223,224.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/05 14:48
S27	1	709/223,224.ccls. and ((generat\$4 creat\$4) adj (node adj diagram))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 14:50
S28	18	((generat\$4 creat\$4) adj (node adj diagram))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 14:54
S29	9	(generat\$4) adj (node adj (chart graph))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 14:58
S30	1645	(node adj (chart graph))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 14:59
S31	44	709/223,224.ccls. and ((node adj (chart graph)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 15:27
S32	3727	(frame) adj (tag address URL ID)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 15:27
S33	2	((frame) adj (tag address URL ID).ab.) and 709/223,224.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 15:28
S34	0	((frame) adj (tag address URL ID)) and(track\$ record\$4) near5 (internet adj (buyer customer user))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/05 15:29
S35	4	((frame) adj (tag address URL ID)) and(track\$ weblog history statistic\$1 habit) near5 ((buyer customer user) adj (session clicksteam))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 15:29
S36	773	(frame) adj (tag address URL ID).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 15:30
S37	323	((frame) adj (tag address URL ID)) and ((track\$ weblog monitor\$4) near5 (buyer customer user))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/05 15:33

S38	2	"5991735".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/08 09:08
S39	1	"778562".apn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/08 09:08
S40	1	(09/778562) and cohen	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/08/17 09:40
S68	0	(track\$5 record\$5 gather\$5 collect\$5) near4 (fram\$5) near4 (oriented specific) near4 (click) near4 (stream history information data)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/27 10:29
S69	0	(track\$5 record\$5 gather\$5 collect\$5) near4 (fram\$5 webpage) near4 (oriented specific) near4 (click) near4 (stream history information data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 10:31
S70	10	(track\$5 record\$5 gather\$5 collect\$5) near4 (oriented specific) near4 (click) near4 (stream history information data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 10:31
S71	0	(track\$5 record\$5 gather\$5 collect\$5) near4 (fram\$5 webpage) near4 (oriented specific) near4 (click) near4 (stream) near4 (history information data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 10:35
S72	0	(track\$5 record\$5 gather\$5 collect\$5) near4 (fram\$5 webpage) near4 (oriented specific) near4 (click) near10 (stream) near10 (history information data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 10:37
S73	0	(track\$5 record\$5 gather\$5 collect\$5) near10 (fram\$5 webpage) near10 (oriented specific) near10(click) near10 (stream) near10 (history information data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 11:52


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1 [Survey articles: Web usage mining: discovery and applications of usage patterns from](#)

[Web data](#)

Jaideep Srivastava, Robert Cooley, Mukund Deshpande, Pang-Ning Tan

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2Full text available: [pdf\(1.44 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Web usage mining is the application of data mining techniques to discover usage patterns from Web data, in order to understand and better serve the needs of Web-based applications. Web usage mining consists of three phases, namely *preprocessing*, *pattern discovery*, and *pattern analysis*. This paper describes each of these phases in detail. Given its application potential, Web usage mining has seen a rapid increase in interest, from both the research and practice communities. This pap ...

Keywords: data mining, web usage mining, world wide web

2 [An Illustra technical white paper](#)

John Gaffney

March 1996 **ACM SIGMOD Record**, Volume 25 Issue 1Full text available: [pdf\(515.99 KB\)](#)Additional Information: [full citation](#), [abstract](#)

Illustra's Web DataBlade module is a comprehensive toolset for creating Web-enabled database applications that dynamically retrieve and update Illustra database content. You can construct simple query front ends in a matter of minutes and powerful Web applications in just a few hours with the Web DataBlade module. The Illustra Web DataBlade makes it easy for you to take full advantage of the Illustra server's many important features, including extensible data types, an underlying rules syst ...

3 [Living Web: supporting Internet-based user-centered design](#)

Jeffrey D. Smith, Kenji Takahashi, Eugene Liang

April 1999 **ACM SIGGROUP Bulletin**, Volume 20 Issue 1Full text available: [pdf\(624.17 KB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

In this paper, we describe an Internet-based platform and applications which address problems encountered in user-centered design. The issues of coordination and management, variety of representations, and the iterative nature of the design process are discussed along with solutions provided by our approach. We give actual examples of usage

of our system and some issues for future consideration.

Keywords: HCI, WWW, artifacts, collaboration, multimedia

4 Late-breaking results: HHI: bridging the gulf between humans and computers: Presentation of personalized information using anthropomorphous agents



Tomonari Kamba, Yuichi Koike

May 1999 **CHI '99 extended abstracts on Human factors in computing systems**

Full text available:  [pdf\(218.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper proposes a method to present personalized information effectively using multiple anthropomorphous agents that know the user's preferences. Conventionally, techniques such as filtering and sorting are used to show the information customized for each user, but it is difficult to naturally reflect human multi-dimensional preferences in such a presentation format. In the proposed method, each agent has a specific viewpoint and interactively points at the contents that the user will be int ...

Keywords: anthropomorphous agent, personalization

5 Balancing internet marketing needs with consumer concerns: a property rights framework



E. Rose

June 2000 **ACM SIGCAS Computers and Society**, Volume 30 Issue 2

Full text available:  [pdf\(519.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Innovations in web technologies, data warehousing and data mining enable Internet marketers to collect, process and analyze personal data gathered from web users browsing and online purchase habits on a much greater scale as it is now quicker and more economical to do so. Recent surveys indicate that consumers are not comfortable with these practices, especially when the data is collected or sold without their consent. The resulting conflict of interest demands a solution. In this paper, a frame ...

Keywords: electronic commerce, internet marketing, privacy, property rights

6 Recommender systems in e-commerce



J. Ben Schafer, Joseph Konstan, John Riedi

November 1999 **Proceedings of the 1st ACM conference on Electronic commerce**

Full text available:  [pdf\(112.96 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: cross-sell, customer loyalty, electronic commerce, interface, mass customization, recommender systems, up-sell

7 Your place or mine?: privacy concerns and solutions for server and client-side storage of personal information



Deirdre Mulligan, Ari Schwartz

April 2000 **Proceedings of the tenth conference on Computers, freedom and privacy: challenging the assumptions**

Full text available:  [pdf\(83.62 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

8 On secure and pseudonymous client-relationships with multiple servers

Eran Gabber, Phillip B. Gibbons, David M. Kristol, Yossi Matias, Alain Mayer

November 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 4Full text available:  [pdf\(161.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper introduces a cryptographic engine, Janus, which assists clients in establishing and maintaining secure and pseudonymous relationships with multiple servers. The setting is such that clients reside on a particular subnet (e.g., corporate intranet, ISP) and the servers reside anywhere on the Internet. The Janus engine allows each client-server relationship to use either weak or strong authentication on each interaction. At the same time, each interaction preserves privacy by neither ...

Keywords: Janus function, anonymity, mailbox, persistent relationship, privacy, pseudonym

9 Consistent, yet anonymous, Web access with LPWA

Eran Gabber, Phillip B. Gibbons, David M. Kristol, Yossi Matias, Alain Mayer

February 1999 **Communications of the ACM**, Volume 42 Issue 2Full text available:  [pdf\(207.80 KB\)](#)  [html\(30.92 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**10** Putting it together: Internet privacy: a public concern

Lorrie Faith Cranor

June 1998 **netWorker**, Volume 2 Issue 3Full text available:  [pdf\(336.26 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

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John Colter, Netscape Navigator

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1 Web-analysis: stripping away the hype
Monticino, M.;

Computer , Volume: 31 , Issue: 12 , Dec. 1998

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2 The data-mining industry coming of age
Piatetsky-Shapiro, G.;

Intelligent Systems, IEEE [see also IEEE Expert] , Volume: 14 , Issue: 6 , Nov Dec. 1999

Pages:32 - 34

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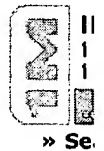
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Jaideep Srivastava, Robert Cooley, Mukund Deshpande, Pang-Ning Tan

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Full text available: pdf(1.44 MB)

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Web usage mining is the application of data mining techniques to discover usage patterns from Web data, in order to understand and better serve the needs of Web-based applications. Web usage mining consists of three phases, namely *preprocessing*, *pattern discovery*, and *pattern analysis*. This paper describes each of these phases in detail. Given its application potential, Web usage mining has seen a rapid increase in interest, from both the research and practice communities. This pap ...

Keywords: data mining, web usage mining, world wide web

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